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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,044	01/12/2007	Philippe Espinasse	P/4393-14	8847
	7590 11/12/200 FABER GERB & SOF	EXAMINER		
1180 AVENUE	OF THE AMERICAS	LAGMAN, FREDERICK LYNDON		
NEW YORK, N	N I 100308403		ART UNIT	PAPER NUMBER
			3672	
			MAIL DATE	DELIVERY MODE
			11/12/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summary	10/540,044	ESPINASSE, PHILIPPE				
Office Action Summary	Examiner	Art Unit				
	Frederick L. Lagman	3672				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONEI	J. nely filed the mailing date of this or D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
· · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed.	WI HOIT COnsideration.					
6)⊠ Claim(s) <u>——</u> is/are allowed.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	·					
<u> </u>						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 119(a)	u-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☒ None of:	priority under 30 0.5.0. § 119(a)	r-(a) or (i).				
1. ☐ Certified copies of the priority documents	s have been received.					
2.☐ Certified copies of the priority documents		on No				
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National	Stage			
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachassatta						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO_413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Informal Patent Application 6) Other:						
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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 1, line 23, the recitation of "space between them" is unclear. It is not readily understood as to what "them" refers to. "Them" should be replace by what "them" actually refers to.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 2, 3, 4, 6, 7, 8, 10, 11, 12, 13, 14, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Vigander #4,188,157 Vigander discloses an underwater storage installation comprising a base 1, at least one storage cell 2, at least one support column 3, a platform 4 and cryogenic supply and discharge pipes (not shown). The storage cell comprising an outer enclosure 13 made of concrete, a vapor barrier 23, a cryogenic liquid storage tank 11 which can be made of metal such as

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stainless steel, and thermal insulation 12 carried in a second space. A drainage elements are provided for draining off water (see col. 6, lines 10-15). Furthermore, it is well known to provide transfer apparatus including a jib to allow transferring of liquids to an tanker/vessel.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vigander '157 in view of Cook #4,402,632. Vigander discloses all that is claimed except for the insulation comprising perlite or glass wool. Cook discloses the use of perlite 46 for insulation for LNG storage, see col. 3, line 65. It would have been obvious to one of ordinary skill in the art to provide perlite as insulation, since Cook teaches that perlite is suitable for accommodating the severe thermal gradient present when liquefied material is stored.

Allowable Subject Matter

7. Claim 9 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick L. Lagman whose telephone number is 571-272-7043. The examiner can normally be reached on Monday-Thursday 8:00AM-6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Frederick L. Lagman/ Primary Examiner Art Unit 3672